Ministry of Northern Development and Mines

Ontario

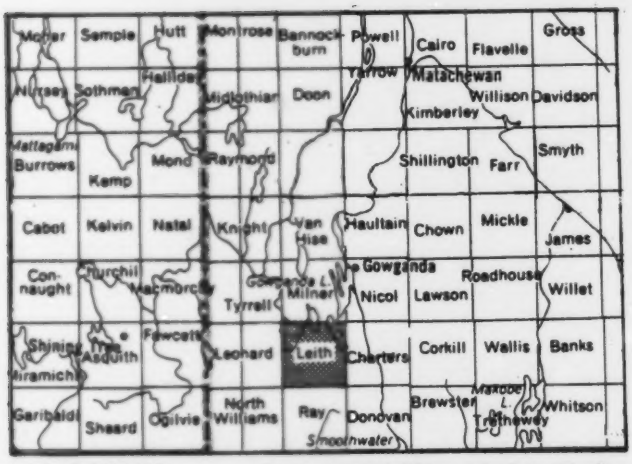
Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

GEOLOGICAL DATA INVENTORY FOLIO 506

LEITH TOWNSHIP

Compiled by the Staff of
the Resident Geologist's Office
Cobalt



LOCATION MAP Scale: 1:1 013 760 or 1 inch to 16 miles

CANADA ONTARIO Mineral Development Agreement / Entente sur le développement minéral

This project is part of the five year Canada–Ontario 1985 Mineral Development Agreement (COMDA), a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the governments of Canada and Ontario.

90-05983/

NTS Number 41P/10 and part of 41P/7

Mining Claim Map Number M-231

This project was funded under the Canada-Ontario Mineral Development Agreement (COMDA)

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey 1990. Leith Township, Geological Data Inventory Folio 506; compiled by the staff of the Resident Geologist's office, Cobalt.

Original Compilation by: Patricia Anderson, February 9, 1989

Date	Page Revised	Revised by

Date	Page Revised	Revised by

Leith Township

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	**20.116 8**	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	**2.589 988**	km^2
1 ha	2.471 054	acres	1 acre	**0.404 685 6**	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	**0.028 316 85**	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	**0.764 555**	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	**0.568 261**	L
1 L	0.879 877	quarts	1 quart	**1.136 522**	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	**28.349 523**	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	**34.285 714 2**	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	**1.714 285 7**	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

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ACCOMPANYING MAPS

Property Location Map 1

Exploration Data Map 1

Map Scale 1: 31 680 or 1 inch to ½ mile

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	D.P.A.
2	Assessment Files Research Office, Toronto	Yes	D.P.A.
3	ODM General Index; 9 Volumes	Yes	D.P.A.
4	Catalogue of Airborne Geophysical Surveys (ODM)	No	D.P.A.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	D.P.A.
6	ODM Industrial Mineral Reports	No	D.P.A.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	D.P.A.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	No	D.P.A.
9	Newspaper Clippings File	Yes	D.P.A.
10	GSC Index to Publications	Yes	D.P.A.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	D.P.A.
12	OGS Index Maps	No	D.P.A.
13	Source Mineral Deposit Records (O.G.S.)	Yes	D.P.A.
14	Author - Subject Articles File	No	D.P.A.
15	Miscellaneous Papers: ODM & OGS	No	D.P.A.
16	ODM Geological Circulars: OGS Study Series	Yes	D.P.A.
17	ODM Preliminary Reports: ODM Bulletins	Yes	D.P.A.
18	ODM – OGS Open File Reports	Yes	D.P.A.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	D.P.A.
20	OGS Aggregate Resources Inventory Papers	N.A.	D.P.A.
21	OGS Mineral Potential Maps	Yes	D.P.A.
22	Theses on File, Cobalt	No	D.P.A.
23	Aerial Photographs on File, Cobalt	Yes	D.P.A.

METALS AND MINERALS REFERENCES LIST

△ anh. . . . . .Anhydrite	△ fu. . . . . .Fuchsite	▲ Ni. . . . . Nickel	△ st. . . . . .Stone
△ ank. . . . . .Ankerite	△ gn. . . . . Galena	△ Nb. . . . . .Niobium	△ talc. . . . . .Talc
△ anna . . . . . Annabergite	△ gt. . . . . Garnet	△ Pd . . . . . .Palladium	△ Te . . . . . .Tellurium
△ ap. . . . . .Apatite	△ goe. . . . . .Goethite	△ peat . . . . . .Peat	△ td. . . . . Tetrahedrite
△ arg . . . . . Argentite	△ Au . . . . . Gold	△ pent . . . . . .Pentlandite	△ th. . . . . .Thorite
△ As . . . . . .Arsenic	△ gf. . . . . .Graphite	△ Pt. . . . . .Platinum	△ Th . . . . . .Thorium
△ asp . . . . . .Arsenopyrite	△ gl . . . . . Gravel	▲ py . . . . . .Pyrite	△ thuc . . . . . Thucholite
△ asb. . . . . .Asbestos	△ gyp. . . . . Gypsum	△ pyl . . . . . Pyrochlore	△ ti . . . . . Titanite
△ ba. . . . . .Barite	▲ hem . . . . . Hematite	△ pyrl . . . . . .Pyrolusite	△ Ti. . . . . Titanium
△ be. . . . . .Beryl	△ il . . . . . Ilmenite	△ po . . . . . .Pyrrhotite	△ tour . . . . . .Tourmaline
△ Bi. . . . . .Bismuth	▲ Fe . . . . . .Iron	△ q . . . . . .Quartz	△ trap . . . . . .Trap rock
△ bn . . . . . .Bornite	▲ IF. . . . . Iron Formation	△ qcv . . . . .Quartz carbonate vein	△ W. . . . . Tungsten
△ bran . . . . . .Brannerite	△ jas . . . . . Jasper	△ ra. . . . . .Radioactive minerals	△ uran . . . . . Uraninite
△ bruc . . . . . .Brucite	△ kaol . . . . . .Kaolinite (kaolin)	△ RE . . . . . .Rare Earths	△ U . . . . . .Uranium
△ Cd . . . . . Cadmium	△ ky . . . . . Kyanite	△ sd. . . . . Sand	△ verm . . . . . .Vermiculite
△ calc. . . . . Calcite	△ Pb . . . . . Lead	△ sgl . . . . . Sand and gravel	△ Y . . . . . Yttrium
△ carb . . . . . .Carbonate	△ lim . . . . . Limonite	△ ss . . . . . .Sandstone	△ Zn . . . . . .Zinc
△ cel . . . . . .Celestite	△ Li. . . . . Lithium	△ scap . . . . . Scapolite	△ zr. . . . . Zircon
△ cc. . . . . .Chalcocite	△ mgst . . . . . .Magnesite	△ shee . . . . . .Scheelite	
▲ cp. . . . . .Chalcopyrite	▲ mag . . . . . .Magnetite	▲ serp . . . . . Serpentine	
△ ch. . . . . .Chert	△ mc . . . . . Malachite	△ sh. . . . . Shale	
△ clay . . . . . .Clay	△ Mn . . . . . Manganese	△ sid . . . . . Siderite	
▲ Co . . . . . Cobalt	△ mb . . . . . .Marble	△ si . . . . . .Silica	
△ cob. . . . . Cobaltite	△ mar. . . . . Marcasite	▲ Ag . . . . . .Silver	
△ cb. . . . . .Columbite	△ ma . . . . . .Marl	△ sl . . . . . Slate	
▲ Cu . . . . . .Copper	△ mi . . . . . Mica	▲ sm . . . . . .Smaltite	
△ cor . . . . . Corundum	△ ml . . . . . .Millerite	△ sod. . . . . Sodalite	
△ dol . . . . . Dolomite	△ mo . . . . . Molybdenite	▲ spec . . . . . Specularite	
△ ep. . . . . Epidote	△ Mo . . . . . .Molybdenum	△ sp. . . . . .Sphalerite	
▲ ery . . . . . Erythrite	△ mon . . . . . Monazite	△ spd. . . . . .Spodumene	
△ fel . . . . . .Feldspar	△ ne. . . . . Nephelite (nepheline)	△ staur. . . . . .Staurolite	
△ fl . . . . . .Fluorite (flurospar)	△ nc. . . . . .Niccolite	△ stib. . . . . Stibnite	

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps or listed in Drillhole Summary.

LEITH TOWNSHIP

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A.	Hudson Bay (Silverbridge, Ruxtex, Silverado)	Ag - major Co, Ni, Fe, Cu - minor		NMI 41P/10, Ag 6 MRC 10, pp. 388-9 ODM-Ag-1190001	Past producer + reserves, 1910-13, 1936-38, 1964-66 OGS 1971, GR 89, pp. 31-42 + Map 2208 ODM 1926, AR Vol 35, pt. 3, pp. 57-58 + Map 30b ODM 1969, Map P.502
B.	Dillabough Lake Occurrence	py			OGS 1971, Map 2208 OGS 1969, Map P.502
C.	Leith Township Occurrence	IF		MRC 11, p. 469	ODM 1921, Vol 30, pt. 4, p. 7

GDIF FORM NO. 1

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																			
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																					
1	O'Gorman-Sweet Syndicate Leith & Charters Tps.																				
	Discovery Hudson Bay mine by Dan O'Gorman 1908			08 09																	
	Sold HS 695, 696, 716 to Hudson Bay (Silver) Mines Ltd.			10- 13 19- 20			10- 13 19- 20														
	and HS 693 to Silverado Mining Co., 1926			26			26														
	Pioneer Prospectors Consolidated Mines Inc., 1928, absorbed Silverado and optioned Hudson Bay						29														
	Silver Valley Mines Ltd., 1933, acquired part of Pioneer Prospectors and Hudson Bay																				
	Worked under name of Silverado Gowganda Mines Ltd.						35- 36														
	Worked under name of Silver Valley Mines Ltd.						37- 39														

GDIF FORM NO. 2

LEITH TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
1	Zagabelt Mining Corp. Ltd. formed to continue Silver Valley option Leith Mines Ltd., 1956 Rusty Lake Mining Corp., 1960 Rustex Mining Corp. Ltd., 1968				60 65	60 65	63- 68													
2	Silverado Mining Co., 14 claims, Leith and Charters Tps.			26			26													
3	Hudson Bay (Silver) Mining Co.			10- 13 19- 20		45 55 66	10- 13 19- 20	35 55 56 57 59 66 67												

GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
4	Pioneer Prospectors Consolidated Mines Ltd.							29												
	Silver Valley Mines Ltd.						37-39	33 37 38 39 59												
5	Silverado Gowganda Mines Ltd.						35-36	28 35												
6	Rusty Lake Mining Corp. Ltd.	61			60 65	60 65 59	63-68	59 60 61 62 63 64 66												

GDIF FORM NO. 2

LEITH TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	MILL		
COMPANY/AUTHOR (file number)																				
7	Shartner, Gustave; Grouse Syndicate; Charters, Leith & Donovan Tps. AFRO #2.1271	72		71 70 74	72 70	72 70		70 71 72 77 74 73												
8	Wilkinson							56												
9	Devon Resources Leith & Charters Tp.																	74		

GDIF FORM NO. 2

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
1	Rusty Lake Mining Corp. Ltd.	1	1960	N40W	-45	0	325	py, mag, spec, cp, sm, Ag	Ag
		2	1960	N40W	-45	0	362	Co, Ag, cp	Ag
		3	1960	N60E	-38	0	285		
		4	1960	N40W	-45	0	286	sm, Ag	Ag
		5	1960	N	-45	0	212		
		6	1960	N50E	-40	0	311	cp, sm, Ag	Ag
		7	1960	S45E	-45	0	239		
2	Rusty Lake Mining Corp.	S-1	1965	N42W	-45	9	251	serp, cp	Ag
		S-2	1965	N42W	-45	9	190	serp	
3	Shartner, Gustave	S-15	1972	East	-38	5	114	cp	Ag
		S-16	1972	S88-30W	-37	5	157	ery, cp, py	Ag
		S-17	1972	N16E	-38	9	102	Co, cp	Ag
		S-18	1972	S88-30W	-38	16	204	cp, Co, spec	Ag
		S-19	1972	East	-38	6	98	hem, py, cp	Ag
		S-20	1972	East	-38	10	97	py, cp, spec	Ag
		S-21	1972	West	-40	7	123	py, hem	Ag
		1	1970	S35W	-40	0	101	cp, py	Ag

GDIF FORM NO. 3

LEITH TOWNSHIP

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
	No data available as of February 9, 1989.				

GDIF FORM NO. 4

10 LEITH TOWNSHIP

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		
	No data available as of February 9, 1989.			

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result
A.	Rb/Sr Rb/Sr	Diabase Post-Huronian	MRC 10, pp. 388-9	2150 m.y. 2150 m.y.

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office, Cobalt.

Devon Resources
Rustex Mining Corp. Ltd.
Silver Valley Mines Ltd.
Silverado-Gowganda Mines Ltd.

GDIF FORM NO. 7

ODM GENERAL INDEX SEARCH

Words searched:

Bone Lake
Bridal Veil Falls
Devon Resources Ltd.
Dillabough Lake
East Wapus Creek
Elkhorn Creek
Elkhorn Lake
Flanagan Lake
Fortune Lake
Fryingpan Lake
Grouse Syndicate
Hangingstone Lake
Holt Lake
Hudson Bay Mine

Index Volume	Listing:	Report Volume	Part	Page
1	Bridal Veil Falls, Wapus creek, Milner tp.	*19	2	169
	Elkhorn Lake, Leith and Milner tps.			
	Diabase	*19	2	177
	Iron formation	*19	2	171
	Section of country from, to Gowganda lake. See Gowganda map			
	Flanagan Lake, Leith tp.			
	Aplite dike	*19	2	178
	Diabase	*19	2	180
	Silver mining	*19	2	186
	Unconformity in Cobalt series	*19	2	176
	Hanging-stone Lake, Milner and Leith tps.			
	Silver mining near	*21	1	149
		*22	1	124
	Hudson Bay Silver Mine, near Hanging-stone lake			
	Accident	*23	1	60,64, 86
	Work at (1911)	*21	1	50,149
	(1912)	*22	1	124
	(1913)	*23	1	139
	Hudson Bay Mines Ltd.			
	Capital	*19	1	48
		*22	1	114
		*25	1	6

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:
Hudson Bay Mines Ltd.
Hudson Bay Mining Co.
Hudson Bay Silver Mines Ltd.
Kidd Lake
Leith Mines Ltd.
Leith Township
Lily Pond
O'Gorman, Dan R.
O'Gorman, Geo. S.
O'Gorman Silver Mine
O'Gorman-Sweet Syndicate
Pioneer Prospectors Consolidated Mines Inc.
Pioneer Silver Mine
Ridge Lake
Rustex Mining Corp. Ltd.

Index Volume	Listing:	Report Volume	Part	Page
1	Hudson Bay Mines Ltd. (cont.)			
	Dividends	*19	2	37
		*20	1	20
		*21	1	15,16
		*22	1	114
		*23	1	17,139
		*24	1	19
		*25	1	6
	Incorporation, date of	*25	1	6
	Officers	*22	1	115
		*24	1	112
		*25	1	111
	Operating in Flanagan Lake area	*19	2	186
	Royalties paid by	*20	1	47
		*21	1	43,44
		*22	1	51
		*23	1	39
		*24	1	56
		*25	1	45
	Share prices	*19	2	38
	Leith Tp., Timiskaming			
	Greywacke	*19	2	174
	Jaspilite	*19	2	171
	Silver claims staked	*19	1	52
	Trees	*19	2	168
2	Dillabough Lake, Leith tp.			
	Claims on; rocks. See map 30b with	*30	3	
	Elkhorn Lake, Leith and Milner tps.			
	Rocks on and near	*29	3	78
		*30	3	7,8, 15,16
	See also map 30b with	*30	3	

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Rusty Lake Mining Corp. Ltd.
Shartner, Gustave
Silver Valley Mines Ltd.
Silverado Mining Co.
Silverado-Gowganda Mines Ltd.
Silverbridge
Thomson Creek
Wapus Creek
Wilkinson
Zagabelt Mining Corp.

Index Volume	Listing:	Report Volume	Part	Page
2	Flanagan Lake, Leith tp.			
	Rocks	*30	3	11
	and claims. See map 30b with	*30	3	
	Frying-pan Lake, Milner and Leith tps.			
	Rocks near	30	3	9,16
	See also map 30b with	30	3	
	Hanging Stone Lake, Gowganda lake			
	Rocks	*30	3	16
	See also map 30b with	*30	3	
	Hudson Bay Silver Mine, Leith tp.			
	Idle (1917)	*27	1	120
	Location map showing	*30	3	22
	Ore shipment reported	*30	3	4
	Production	*31	2	28
	Hudson Bay Mines Ltd.			
	Capital	*31	2	20,142
	Financial details	*32	1	14
	dividends (to 1913)	*26		17
		*27	1	15
		*28	1	21
		*29	1	12
		*30	1	14
		*31	1	13
		*31	2	20,142
		*32	1	14
		*33	1	12
		*35	1	21
	profit tax	*29	1	58
	royalties	*26		61
		*31	2	22
		*NC$_R$ 1		525
	Mining in Leith tp. See Hudson Bay s.m., Leith tp.			

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
2	Leith Tp., Timiskaming			
	See also Elkhorn l. Flanagan l. Frying pan l.			
	Map geological. See map 30b with	*30	3	
	Rocks	*30	3	6-9
	Silver mg. See Hudson Bay s.m. Silverado s.m.			
	production	*31	2	28
	Timber	*30	3	3
	O'Gorman, D.R.			
	of Silverado Mg. Co.	*29	1	109
	O'Gorman, Geo. S.			
	of Silverado Mg. Co.	*29	1	109
	O'Gorman Silver Mine, Leith tp.			
	Adinole	*30 *35	3 5	11 13
	Silverado Silver Mine, Leith tp.			
	Description	*30	3	43
	Map showing location	*30	3	22
	Operations (1919)	*29	1	109
	Re-opened	*29	3	88
	Silverado Mining Co.			
	Capital and date of charter	*26		59
	Thomson Lake, Leith tp.			
	Cobalt series. See map 30d with	*30		3

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
3	Leith Tp., Timiskaming			
	Silver mg.			
	See Pioneer s.m. Silver Valley Mines Silverado Gowganda Mines			
	Pioneer Prospectors Consolidated Mines Ltd.			
	Incorporated	*38	1	55
	Silver Valley Mines Ltd.			
	Capital; officers; operations: (1937)	47	1	246
	(1938)	48	1	238
	Incorporated	43	1	40
	Silverado Gowganda Mines Ltd.			
	Incorporated	45	1	53
	Operations (1935)	45	1	186
	Wapus Creek, W. br. Montreal r.			
	Photo	*41	2	30
	Rocks	*41	2	35,47
	Silver-cobalt veins	*41	2	47,49
	Zagabelt Mining Corp. Ltd.			
	Incorporated	49	1	47
6	Leith Mines Ltd.			
	Incorporated	66	1	33
	name changed	66	1	37

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ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
7	Rusty Lake Mining Corp.			
	Capital; officers; operations: (1963)	73		138,139
8	Devon Resources Ltd.			
	Gowganda area, Timiskaming District	MP 60		125
	Dillabough Lake			
	Leith Tp., Timiskaming District	GR 89		18,20, 21,29, 47
	Elkhorn Lake			
	Leith Tp., Timiskaming District	GR 89		6,7,9, 23,28, 29,30
	Flanagan Lake			
	Leith Tp., Timiskaming District	GR 89		15,29, 34
	Hangingstone Lake			
	Leith Tp., Timiskaming District	GR 89		11,14, 18
	Hudson Bay Mines Ltd.			
	Leith Tp., Timiskaming District	GR 89		31,32
	Hudson Bay Silver Mine			
	Leith Tp., Timiskaming District			
	mining property, report on	GR 89		1,31-42

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ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
8	Leith, Charters & Corkill Tps., Timiskaming District			
	Geology of the area			
	Report and map 2208 on, 1971 by W.H. McIlwaine	GR 89		
	silver-cobalt	GR 89		42-44
	Leith-Corkill Area, Timiskaming District			
	summary of field work, 1968 by W.H. McIlwaine	MP 22		55-57
	Leith Mines Ltd.			
	Leith Tp., Timiskaming District	GR 89		32
	Leith Tp., Timiskaming District			
	Geology of the Maple Mt. area	GR 106		
	iron	MRC 11		469
	silver	74		134
		75		134-135
		76		156-157
		77		143
		78		113-114
	silver/cobalt	GR 106		81
		MRC 10		388-389
	O'Gorman, Dan			
	Leith Tp., Timiskaming District	GR 89		1,29, 31
	O'Gorman Lake Fault			
	Leith & Donovan Tps., Timiskaming District	GR 89		18,28
		GR 106		53,54

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ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
8	Pioneer Prospectors Consolidated Mines Incorp.			
	Leith Tp., Timiskaming District	GR 89		31
	Ridge Lake			
	Leith Tp., Timiskaming District	GR 89		11,13, 29
	Rustex Mining Corp.			
	Leith Tp., Timiskaming District	78		113-114
		GR 89		31-42
		GR 106		81
		MP 22		56,57
		MP 25		4
		MRC 10		388-389
	Rusty Lake Mining Corp.			
	Leith Tp., Timiskaming District	74		134
		75		134-135
		76		156-157
		77		143
		GR 89		31,32
		MP 18		5
	Silver Valley Mines Ltd.			
	Leith Tp., Timiskaming District	GR 89		31,32
	Silverado Gowganda			
	Leith Tp., Timiskaming District	GR 89		32
	Silverado Mine			
	Leith Tp., Timiskaming District	GR 89		31,35, 36,37 40

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ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
8	Wilkinson Property			
	Leith Tp., Timiskaming District	GR 89		31
	Zagabelt Mining Corp. Ltd.			
	Leith Tp., Timiskaming District	GR 89		32
9	Devon Resources Ltd.			
	Leith Tp., Timiskaming District	MP 64		77
	Elkhorn Lake			
	Milner & Leith Tps., Timiskaming District	GR 175		8,41, 65,78
	Hangingstone Lake			
	Charters & Leith Tps., Timiskaming District	GR 175		32
	Leith Tp., Timiskaming District			
	silver	MP 70		352
	smaltite	MP 70		361

*Out of Print

NC_R^1 = Report of the Royal Ontario Nickel Commission

GDIF FORM NO. 8

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Card, K.D. et al	1971	Sudbury-Cobalt Sheet, Geological Compilation Series, Algoma, Manitoulin, Nipissing, Parry Sound, Sudbury + Timiskaming Districts, Ontario	ODMNA Map 2188	1:253 440
Card, K.D. McIlwaine, W.H.	1973	Geology of the Maple Mountain Area, Timiskaming, Nipissing and Sudbury Districts, Ontario	ODM GR 106	
Card, K.D. McIlwaine, W.H.	1973	Smoothwater Lake, Timiskaming District, Ontario	ODM Map 2256	1:63 360
Card, K.D. Lumbers, S.B.	1977	Sudbury-Cobalt, NTS 31L/W, 31M/SW, 41I, 41P/S, Sudbury + AL 5 Districts, Ontario, Geological Compilation Series	ODM Map 2361	1:253 440
Collins, W.H.	1909	Preliminary Report on the Gowganda Mining Division, District of Nipissing, Ontario	*GSC Separate Report 1075 *GSC Map 1076	 1:63 360
Collins, W.H.	1914	The Geology of the Gowganda Mining Division	*GSC Memoir 33 *GSC Memoir 64A	 1:63 360
Easton, R.M.	1986	Geochronology of Ontario, Part 1: Compilation of Data	OFR 5592	179 p.
Fortescue, J.A.C.	1985	Preliminary Studies of Lake Sediment Geochemistry in an Area Northeast of Sudbury, NTS 41I/15, 41P/2,7+10, Sudbury & Timiskaming Districts	OGS Geoph-Geoch Map 80 756	1:100 000
Ginn, R.M.	1964	Timmins-Kirkland Lake Sheet, Cochrane, Sudbury & Temiskaming Districts, Ontario, Geological Compilation Series	ODM Map 2046	1:253 440
GSC	1956	Aeromagnetic Map, Gowganda, Ontario	GSC Map 284G	1:63 360

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SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Gupta, V.K.	1981	Bouger Gravity and Generalized Geological Map of Gogama-Gowganda Area, NTS 41/P, Timiskaming & Sudbury Districts, Ontario	OGS Map P.2481	1:100 000
Hunter & Assoc. Ltd.	1984	Peat and Peatland Evaluation of the New Liskeard Area, NTS 31M/2 + 41P/E, Timiskaming + 2 other Districts	OGS OFR 5486	3 volumes
Kretschmar, U. Kretschmar, D.	1980	Talc, Magnesite and Asbestos Deposits in the Kirkland Lake-Timmins Area, NTS 31M, 32D, 41O, 41P, 42A, 42B, Timiskaming + 2 AL Districts	OGS OFR 5310	
Kretschmar, U. Kretschmar, D.	1986	Talc, Magnesite and Asbestos Deposits in the Timmins-Kirkland Lake Area, Timiskaming & Cochrane Districts	OGS Study 28	
Legun, A.	1984	Huronian Stratigraphy and Sedimentation in the Cobalt area, NTS 31M/W + 41P, Ontario	OGS OFR 5508	
Long, D.G.F. Leslie, C.A.	1986	The Placer Gold Potential of the Early Aphebian Gowganda Formation along the Northern margin of the Cobalt Embayment, Ontario, with Comments on Associated Concentrations of Silver and Copper	OGS OFR 5608	
Mansinha, L. Wilkinson, D.A.	1983	Grant No. 109: Interpretation of Gravity Data from New Liskeard, NTS 31M/W, 41P/E, Ontario	OGS OFR 5440	

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SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
McIlwaine, W.H.	1969	Geology of Leith, Charters and Corkill Townships, District of Timiskaming, Ontario	ODM OFR 5035	
McIlwaine, W.H.	1969	Leith Township, District of Timiskaming, Ontario	ODM Map P.502	1:15 840
McIlwaine, W.H.	1971	Geology of Leith, Charters and Corkill Townships, District of Timiskaming, Ontario	ODMNA GR 89 ODMNA Map 2208	 1:31 680
OGS	1979	Airborne Gamma-Ray Spectrometry Maps and Profiles	OGS Geoph-Geoch Maps 80372-80410	1:250 000
Parks, W.A.	1907	The Geology of a District from Lake Timiskaming Northward	*GSC Summary Report 1904 Vol XVI, pt. A	pp. 198-225
Petruk, W.	1966	Mineralogical Investigation of a Cobalt-Nickel Ore from the Rusty Lake Mine in the Gowganda Area Ontario	Can. Dept. Mines & Technical Surveys, Mines Branch IR 66-14	
Pyke, D.R. Ayres, L.D. Innes, D.G.	1973	Timmins-Kirkland Lake Geological Compilation Series, Cochrane, Sudbury & Timiskaming Districts, Ontario	ODM Map 2205	1:253 440
Redman, J.D. Strangway, D.W.	1986	Ontario Geoscience Research Grant Program, Grant No. 118, Surface Electromagnetic Mapping in Northern Ontario	OGS OFR 5615	
Reid, J.A.	1943	Mineral Resources of the Timiskaming Silver-Cobalt Area, Ontario	ODM Bulletin No. 134	

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SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Roed, M.A.	1980	Elk Lake Area, NTS 41P/NE, Timiskaming District, Ontario	NOEGTS 83	
Roed, M.A. Hallett, D.R.	1980	NOEGTS Data Base Map, Elk Lake, NTS 41P/NE, Timiskaming District, Ontario	OGS Map 5020	1:100 000
Savage, W.S. Fenwick, K.G.	1962	Gogama Sheet, District of Sudbury and Timiskaming, Ontario	ODM Map P.151	1:126 720
Savage, W.S. Thomson, R. Fenwick, K.G.	1962	Elk Lake-New Liskeard Sheet, District of Timiskaming, Ontario	ODM Map P.159	1:126 720
Springer, J.	1977	Ontario Mineral Potential, Gogama Sheet + part of Ville Marie Sheet, NTS 41P, 31M/W, Timiskaming & Sudbury Districts, Ontario	OGS Map P.1514	1:250 000
Surveys and Mapping Branch, EMR	1976	Smoothwater Lake	NTS 41P/7	1:50 000
Surveys and Mapping Branch, EMR	1976	Gowganda, Ontario	NTS 41P/10	1:50 000
Symons, D.T.A. Stupavsky, M.	1983	Grant No. 143: Analysis of Aeromagnetic Anomalies over Algoman-Type Iron Formations	OGS OFR 5476	

*Out of Print

NOTES AND ADDENDA

The exploration data map shows only the most important minerals found at each site. All the minerals noted are listed in the mineral occurrences or the drill hole data.

On the maps, only the areas for which work has been submitted to the Ministry are shown and thus a company may hold, or have held in the past, more ground than is shown.

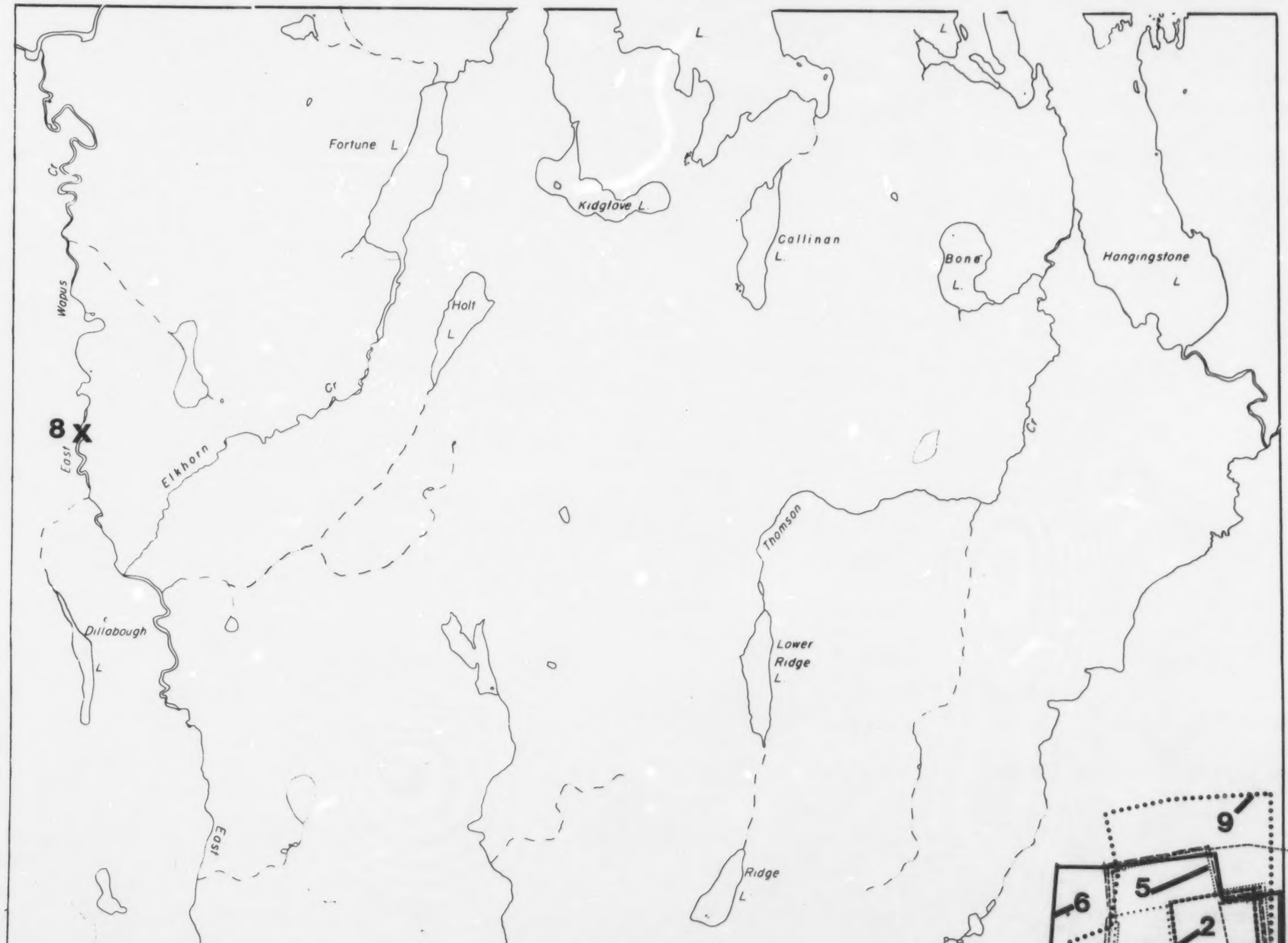
The Hudson Bay Mine produced at least 80,186 oz. Ag and 595 lb. Co. Reserves totalling 10,400 T of ore grading 12.2 oz. IT Ag were reported in 1967.

The township was closed to staking in 1978 due to the Bear Island Indian Caution.

AIR PHOTOS - on file in Cobalt

1" = ¼ mile for 1959 and 1964.

Air photos can also be viewed at or purchased from the Public Service Centre, Room 1640, Whitney Block.



Ministry of Northern De and Mines

Ontario

ONTARIO GEOLO

PROPERTY LO

GEOLOGICAL DATA INV

(Map 1

LEITH TO

Scale 1:3

Kilometre 0.5 0

Mile 0.5 0

Ministry of Northern Development and Mines

Mines and Minerals Division

Ontario

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 506

(Map 1 of 2)

LEITH TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

LEITH TOW

Scale 1:31 6

Kilometre 0.5 0

Mile 0.5 0

East

Elkhorn Cr

Dillabough L

East

Wapus Cr

Thomson

Lower Ridge L

Ridge L

Flanagan L

Flanagan

O'Gorman L

Thomson Lake

9 5 6 2 1 3 1 7 4 9

EXPLORATION DAT

Reference number is alway
See listing in text pages.

x 4 Small area of exploration

File covers whole township

LEITH TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

Elkhorn Cr

Dillabough L

Thomson L

Lower Ridge L

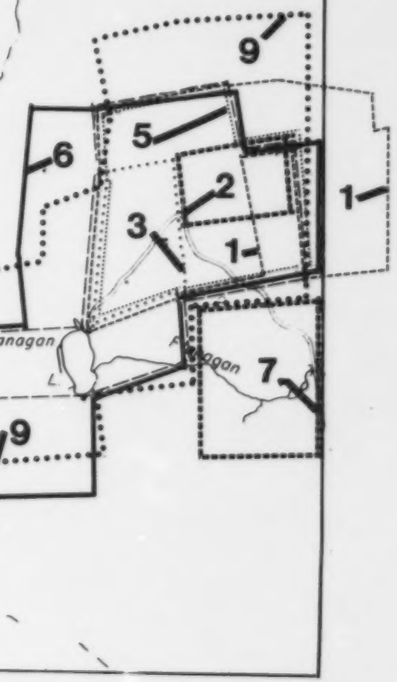
Ridge L

Wapus Cr

Flanagan L

O'Gorman L

Thomson Lake



EXPLORATION DATA FILE AREAS

- Reference number is always inside work area outlined. See listing in text pages.
- Small area of exploration
- File covers whole township or area

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- ☐ ◆³ — Geochemical sample site, with reference number
- ☐ ◆³ — Area of geochemical sampling, with reference number
- ■ ✳² — Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- ☐ —AM— — Airborne magnetic anomaly
- ☐ — Airborne electromagnetic anomaly Length of anomaly along flight line
- ☐ — Airborne electromagnetic anomaly
- ☐ — Airborne electromagnetic anomaly Conductor axis
- ☐ —ARA— — Airborne radiometric anomaly
- ☐ —M— — Ground magnetic anomaly
- ☐ VL — Ground electromagnetic anomaly (VL - Vertical loop; HL - Horizontal loop VLF - Very low freq.; Turam; JEM - Crone Em - 16; EM - Undefined)
- ☐ —RA— — Ground radiometric anomaly
- ☐ —IP— — Induced polarization anomaly
- ☐ —SP— — Self potential anomaly
- ☐ —AFMAG— — Audio-frequency magnetic anomaly (total intensity)
- ☐ —R— — Resistivity anomaly
- ☐ —GR— — Gravity anomaly

Ministry of Northern Development and Mines

Ontario

Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 506

(Map 2 of 2)

LEITH TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- cp A. — Mineral occurrence at surface, with reference letter
- Au A. 84 — Mineral occurrence with shaft, depth given with reference letter
- Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- cp A. — Mineralized float with reference letter
- A. — Mineral occurrence in drillhole, with reference letter, and drillhole number

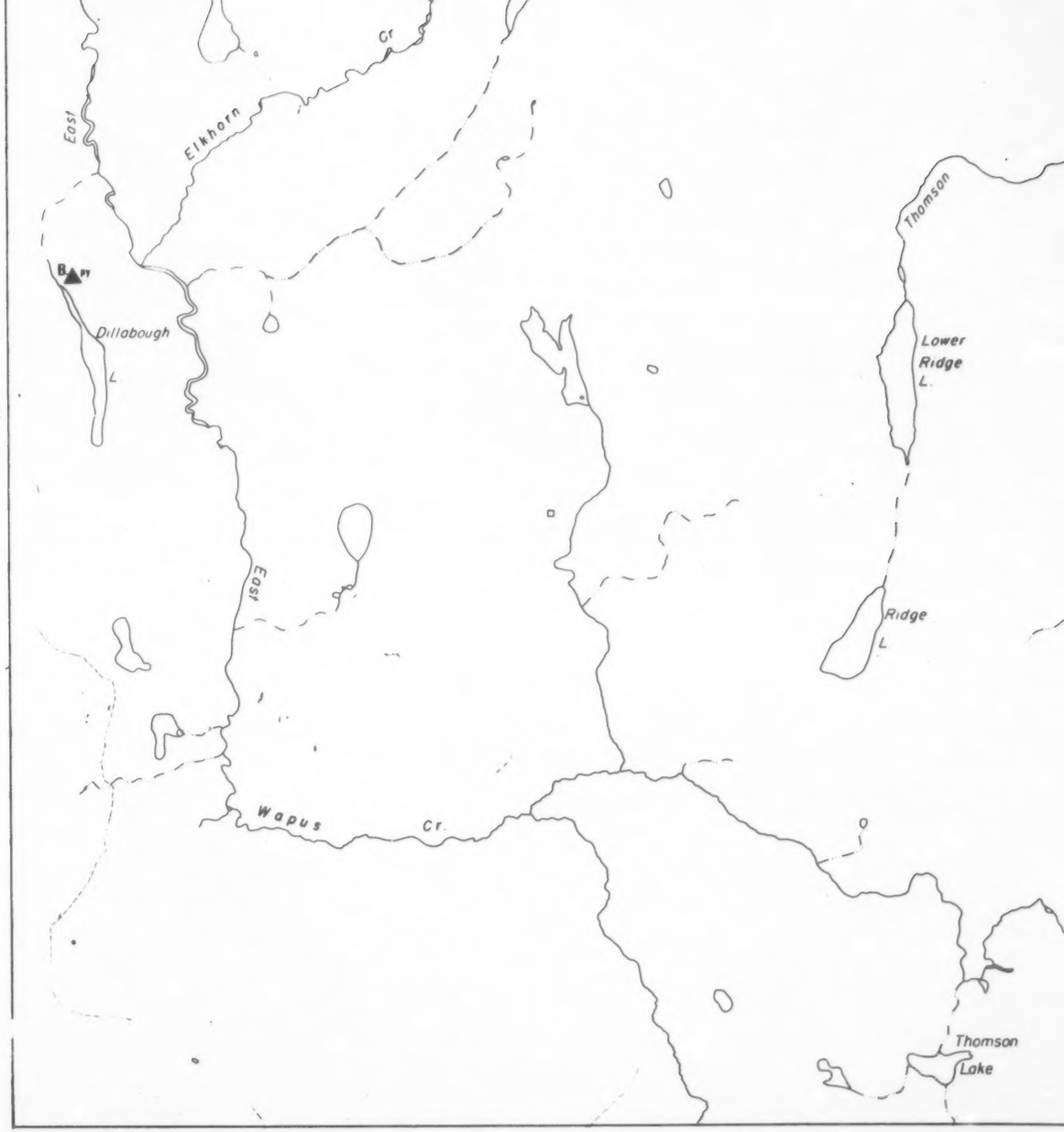
DRILLHOLES

- ☐ Airborne magnetic anomaly
- ☐ Airborne electromagnetic anomaly — Length of anomaly along flight line
- ☐ Airborne electromagnetic anomaly
- ☐ Airborne electromagnetic anomaly — Conductor axis
- ☐ -ARA- Airborne radiometric anomaly
- ☐ -M- Ground magnetic anomaly
- ☐ -VL- Ground electromagnetic anomaly (VL - Vertical loop; HL - Horizontal loop; VLF - Very low freq.; Turam; JEM - Crone Em - 16; EM - Undefined)
- ☐ -RA- Ground radiometric anomaly
- ☐ -IP- Induced polarization anomaly
- ☐ -SP- Self potential anomaly
- ☐ -AFMAG- Audio-frequency magnetic anomaly (total intensity)
- ☐ -R- Resistivity anomaly
- ☐ -GR- Gravity anomaly

MISCELLANEOUS DATA

- ☐ Trenching, pit
- ☐ Adit
- ☐ Open pit
- ☐ Rock quarry
- ☐ Sand and/or gravel pit
- ■ Number of closely spaced trenches or pits

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.



Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- ■ cp A. — Mineral occurrence at surface, with reference letter
- ■ Au A. 84 — Mineral occurrence with shaft, depth given with reference letter
- □ Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- □ cp A. — Mineralized float with reference letter
- □ A. — Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- □ •2 — Location of single drillhole, with reference number
- ■ ◉2 — Location of closely spaced group of drillholes, with reference number
- □ ?2 — Drillhole, exact location uncertain, with reference number
- □ — Property with underground drillholes in this general area, with reference number
- □ ○2 — Property with drillholes which have not been plotted on map, with reference number
- □ ⊕2 — Reverse circulation drillhole; churn drilling, with reference number